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effects on the transmission system performance. Furthermore, synchronization circuits comprehend such a large part of the receiver hardware that their implementation has a substantial impact on the overall costs.

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concepts of parameter  
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Subject: Synchronization  
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Keywords: synchronization,  
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communications, theory

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critical function in digital communications; its failures may have catastrophic

effects on the transmission system performance.

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Synchronization is a critical function in digital communications; its failures may have catastrophic effects on the transmission system performance.

Furthermore, synchronization circuits comprehend such a large part of the receiver hardware that their implementation has a substantial impact on the overall costs. For these reasons design engineers are particularly concerned with

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the development of new and more efficient synchronization structures. Unfortunately, the advent of digital VLSI technology has radically affected modem design rules, to a point that most analog techniques employed so far have become totally obsolete. Although digital synchronization methods are well established by now in the literature, they only appear in the form of technical papers, often concentrating on specific performance or implementation issues. As a consequence they are hardly useful to give a unified view of an otherwise seemingly heterogeneous



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field. It is widely recognized that a fundamental understanding of digital synchronization can only be reached by providing the designer with a solid theoretical framework, or else he will not know where to adjust his methods when he attempts to apply them to new situations. The task of the present book is just to develop such a framework.

Do you need to know how to develop more efficient digital communication systems? Based on the author's experience of over thirty years in industrial

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Design, this practical guide  
provides detailed coverage  
of synchronization

subsystems and their  
relationship with other  
system components. Readers  
will gain a comprehensive  
understanding of the  
techniques needed for the  
design, performance analysis  
and implementation of  
synchronization functions  
for a range of different  
modern communication  
technologies. Specific  
topics covered include  
frequency-locked loops in  
wireless receivers, optimal  
OFDM timing phase  
determination and  
implementation, and  
interpolation filter design

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and analysis in digital  
resamplers. Numerous  
implementation examples help  
readers to develop the  
necessary practical skills,  
and slides summarizing key  
concepts accompany the book  
online. This is an  
invaluable guide and  
essential reference for both  
practicing engineers and  
graduate students working in  
digital communications.

Since the early 1990s, when  
synchronization of chaotic  
communication systems became  
a popular research subject,  
a vast number of scientific  
papers have been published.  
However, most of today's  
books on chaotic

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Receiver Applications of  
Communications Theory  
communication systems deal  
exclusively with the systems  
where perfect

synchronization is assumed,  
an assumption which  
separates theoretical from  
practical, real world,  
systems. This book is the  
first of its kind dealing  
exclusively with the  
synchronization techniques  
for chaotic communication  
systems. It describes a  
number of novel robust  
synchronization techniques,  
which there is a lack of,  
for single and multi-user  
chaotic communication  
systems published and highly  
cited in world's leading  
journals in the area. In  
particular, it presents a

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Receivers Applications Of  
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solution to the problem of  
robust chaotic  
synchronization by

presenting the first fully  
synchronized, highly secure,  
chaos based DS-CDMA system.  
The book fills a gap in the  
existing literature where a  
number of books exist that  
deal with chaos and chaotic  
communications but not with  
synchronization of chaotic  
communication systems. It  
also acts as a bridge  
between communication system  
theory and chaotic  
synchronization by carefully  
explaining the two concepts  
and demonstrating how they  
link into chaotic  
communication systems. The  
book also presents a

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Receiver's Applications Of  
Communications Theory  
detailed literature review  
on the topic of  
synchronization of chaotic  
communication systems.

Furthermore, it presents the literature review on the general topic of chaotic synchronization and how those ideas led to the application of chaotic signals to secure chaotic communication systems. It therefore, in addition to presenting the state of the art systems, also presents a detailed history of chaotic communication systems. In summary, the book stands out in the field of synchronization techniques for chaotic communication systems.

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## Receivers Applications Of

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Receivers Synchronization,

Channel Estimation, and

Signal Processing Digital

Communication Receivers

offers a complete treatment

on the theoretical and

practical aspects of

synchronization and channel

estimation from the

standpoint of digital signal

processing. The focus on

these increasingly important

topics, the systematic

approach to algorithm

development, and the linked

algorithm-architecture

methodology in digital

receiver design are unique

features of this book. The

material is structured

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according to different classes of transmission channels. In Part C, baseband transmission over wire or optical fiber is addressed. Part D covers passband transmission over satellite or terrestrial wireless channels. Part E deals with transmission over fading channels. Designed for the practicing communication engineer and the graduate student, the book places considerable emphasis on helpful examples, summaries, illustrations, and bibliographies. Contents include: \* Basic material \* Baseband communications \* Passband transmission \*



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Receiver structure for PAM signals \* Synthesis of synchronization algorithms \* Performance analysis of synchronizers \* Bit error degradation caused by random tracking errors \* Frequency estimation \* Timing adjustment by interpolation \* DSP system implementation \* Characterization, modeling, and simulation of linear fading channels \* Detection and parameter synchronization on fading channels \* Receiver structures for fading channels \* Parameter synchronization for flat fading channels \* Parameter synchronization for selective fading channels

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Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core

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concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple

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case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

This book, edited and authored by world leading experts, gives a review of the principles, methods and techniques of important and emerging research topics and technologies in wireless communications and transmission techniques. The reader will:

- Quickly grasp a new area of research
- Understand the underlying principles of a topic and its application
- Ascertain how a topic relates to other

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areas and learn of the  
research issues yet to be  
resolved Reviews important  
and emerging topics of  
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This two volume set  
constitutes the refereed  
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of the Second International  
Conference on Machine  
Learning and Intelligent  
Communications, MLICOM 2017,  
held in Weihai, China, in  
August 2017. The 143 revised  
full papers were carefully  
selected from 225  
submissions. The papers are  
organized thematically in  
machine learning,  
intelligent positioning and  
navigation, intelligent  
multimedia processing and  
security, intelligent  
wireless mobile network and  
security, cognitive radio  
and intelligent networking,  
intelligent internet of  
things, intelligent  
satellite communications and  
networking, intelligent

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remote sensing, visual computing and three-dimensional modeling, green communication and intelligent networking, intelligent ad-hoc and sensor networks, intelligent resource allocation in wireless and cloud networks, intelligent signal processing in wireless and optical communications, intelligent radar signal processing, intelligent cooperative communications and networking.

Offers concise, practical knowledge on modern communication systems to help students transition smoothly into the workplace

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and beyond This book  
presents the most relevant  
concepts and technologies of  
today's communication  
systems and presents them in  
a concise and intuitive  
manner. It covers advanced  
topics such as Orthogonal  
Frequency-Division  
Multiplexing (OFDM) and  
Multiple-Input Multiple-  
Output (MIMO) Technology,  
which are enabling  
technologies for modern  
communication systems such  
as WiFi (including the  
latest enhancements) and LTE-  
Advanced. Following a brief  
introduction to the field,  
Digital Communication for  
Practicing Engineers  
immerses readers in the



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theories and technologies that engineers deal with. It starts off with Shannon Theorem and Information Theory, before moving on to basic modules of a communication system, including modulation, statistical detection, channel coding, synchronization, and equalization. The next part of the book discusses advanced topics such as OFDM and MIMO, and introduces several emerging technologies in the context of 5G cellular system radio interface. The book closes by outlining several current research areas in digital communications. In addition,

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Receivers: Breaks down the subject into self-contained lectures, which can be read individually or as a whole. Focuses on the pros and cons of widely used techniques, while providing references for detailed mathematical analysis. Follows the current technology trends, including advanced topics such as OFDM and MIMO. Touches on content this is not usually contained in textbooks such as cyclo-stationary symbol timing recovery, adaptive self-interference canceler, and Tomlinson-Harashima precoder. Includes many illustrations, homework problems, and examples. Digital Communication for

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Practicing Engineers is an ideal guide for graduate students and professionals in digital communication looking to understand, work with, and adapt to the current and future technology.

A systematic explanation of the principles of radio systems, Digital Radio System Design offers a balanced treatment of both digital transceiver modems and RF front-end subsystems and circuits. It provides an in-depth examination of the complete transceiver chain which helps to connect the two topics in a unified system concept. Although the

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book tackles such diverse fields it treats them in sufficient depth to give the designer a solid foundation and an implementation perspective. Covering the key concepts and factors that characterise and impact radio transmission and reception, the book presents topics such as receiver design, noise and distortion. Information is provided about more advanced aspects of system design such as implementation losses due to non-idealities. Providing vivid examples, illustrations and detailed case-studies, this book is an ideal introduction to digital

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radio systems design. Offers a balanced treatment of digital modem and RF front-end design concepts for complete transceivers Presents a diverse range of topics related to digital radio design including advanced transmission and synchronization techniques with emphasis on implementation Provides guidance on imperfections and non-idealities in radio system design Includes detailed design case-studies incorporating measurement and simulation results to illustrate the theory in practice

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